

**FIG. 1**

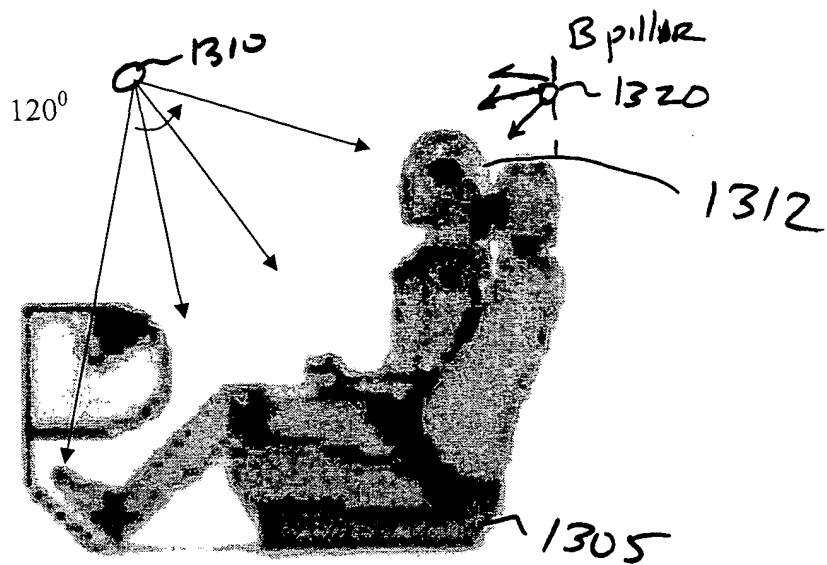


FIG. 13

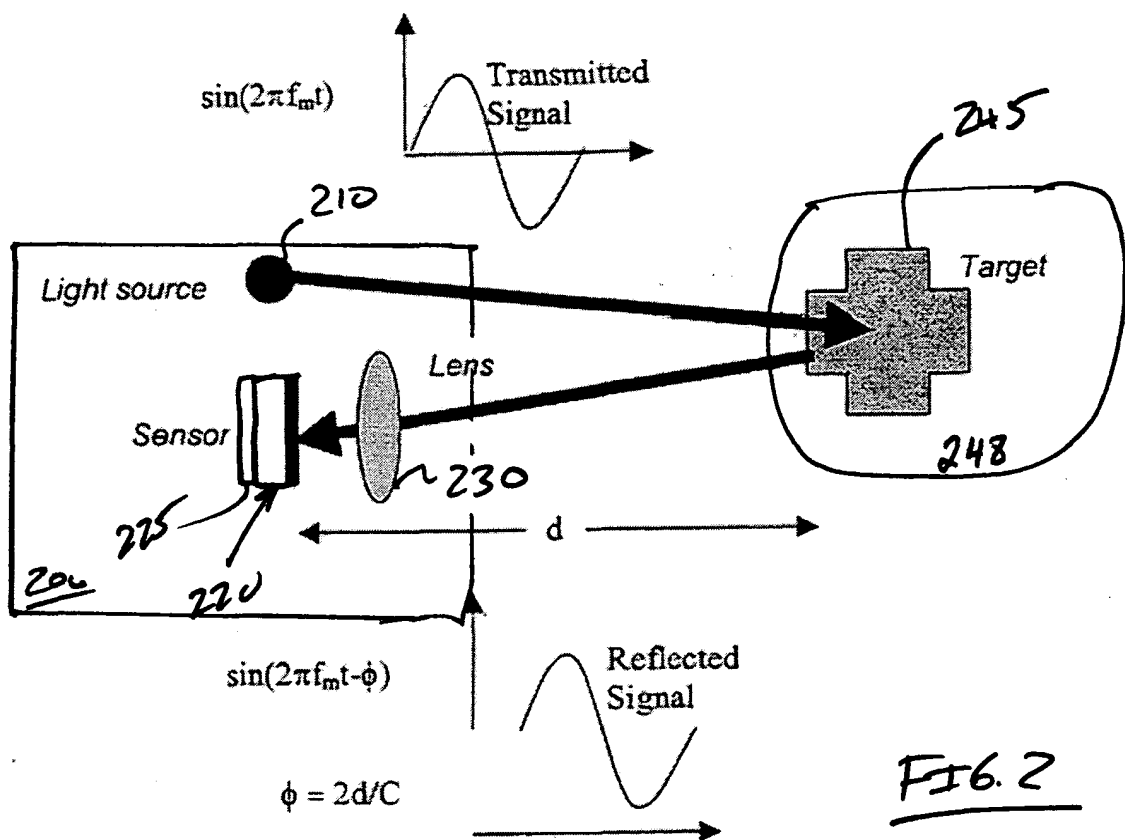


FIG. 2

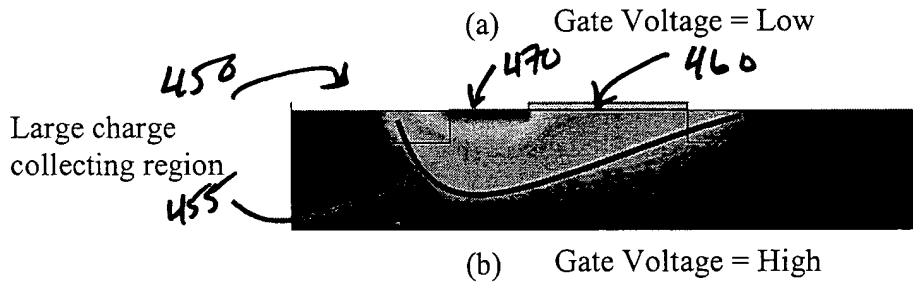
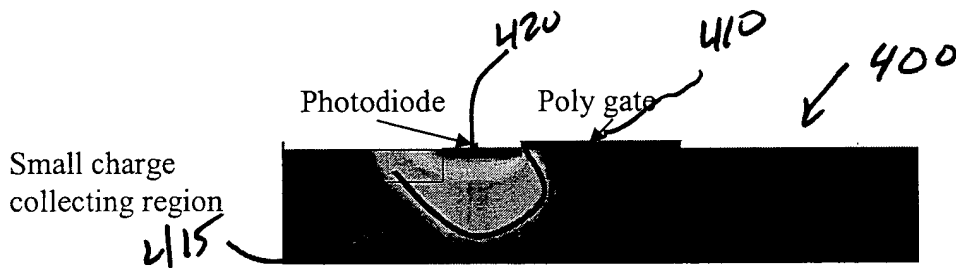
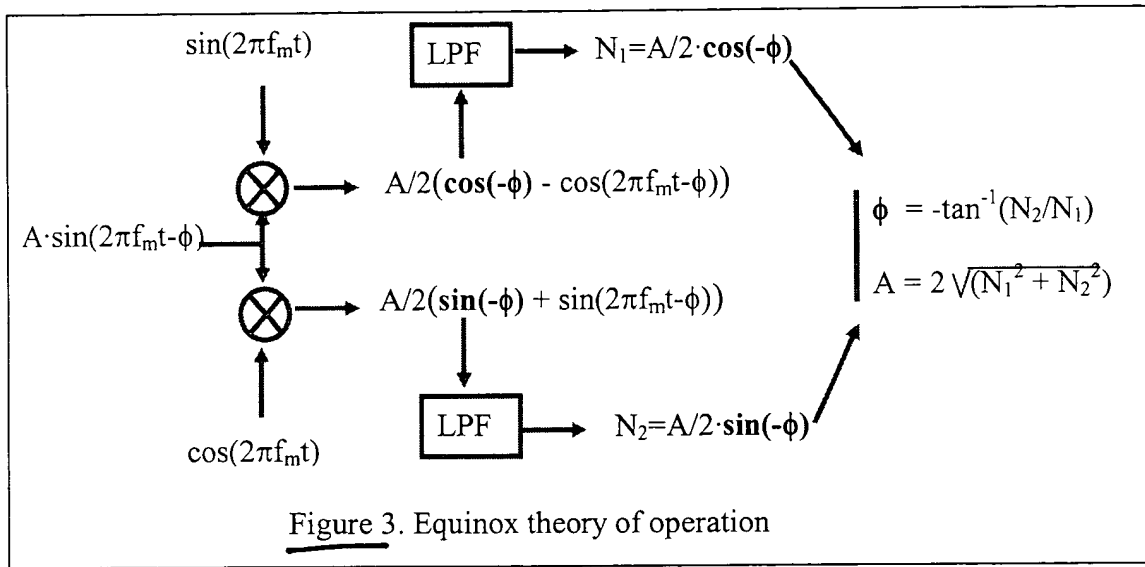


Figure 4. Photodiode quantum efficiency modulation structure where charge collection area is modulated as a function of gate voltage

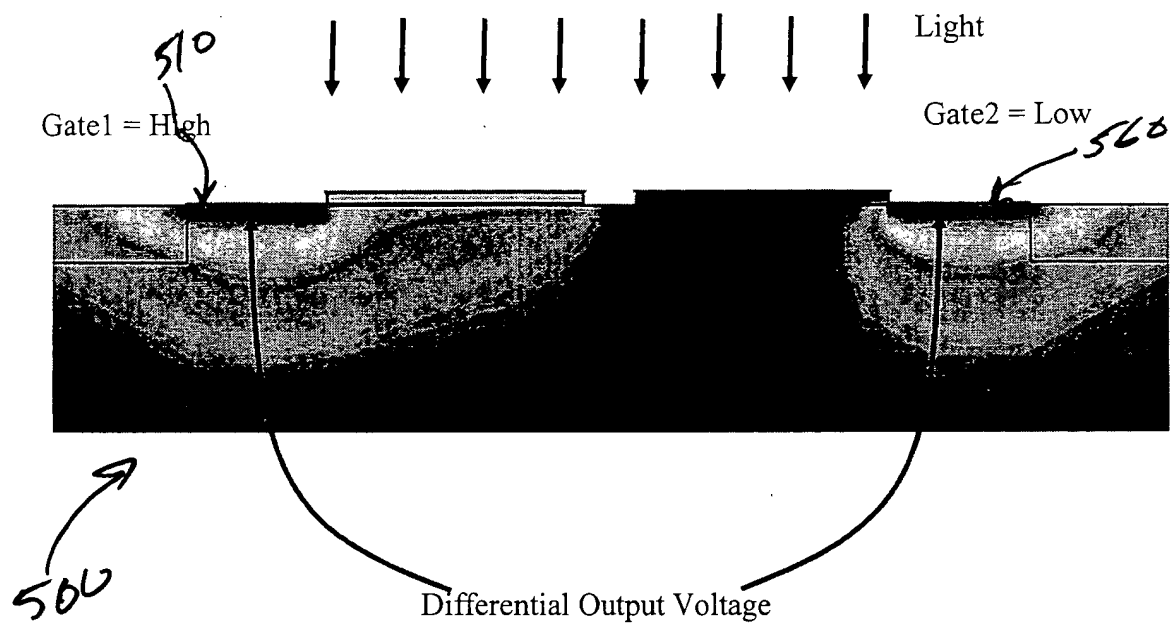


Figure 5. Differential QE modulation pixel structure.

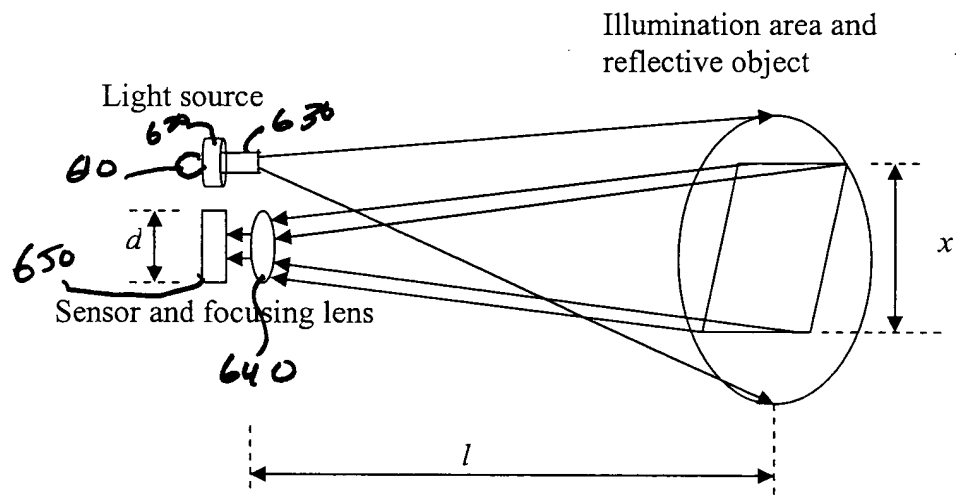


Figure 6. Optical system

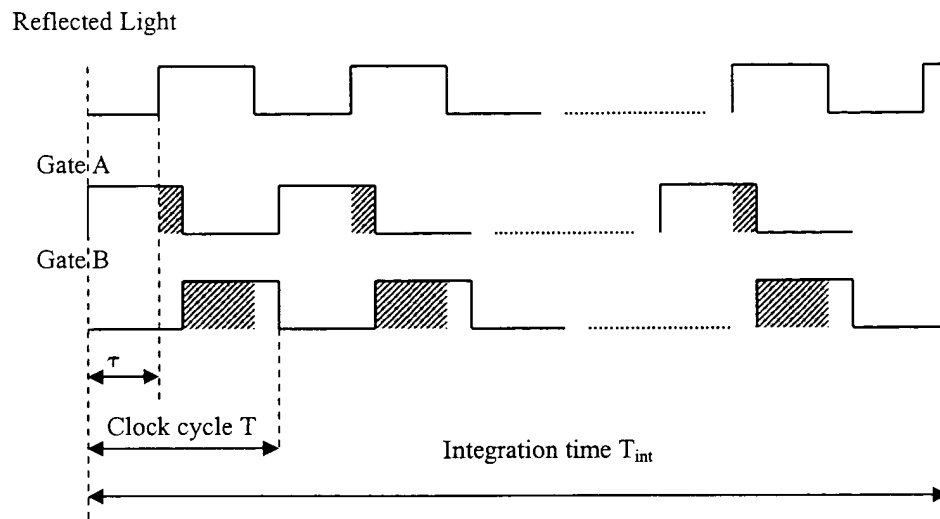


Figure 7. Charge collection model with differential QE modulated photodiodes; shaded area represents the active charge collection.

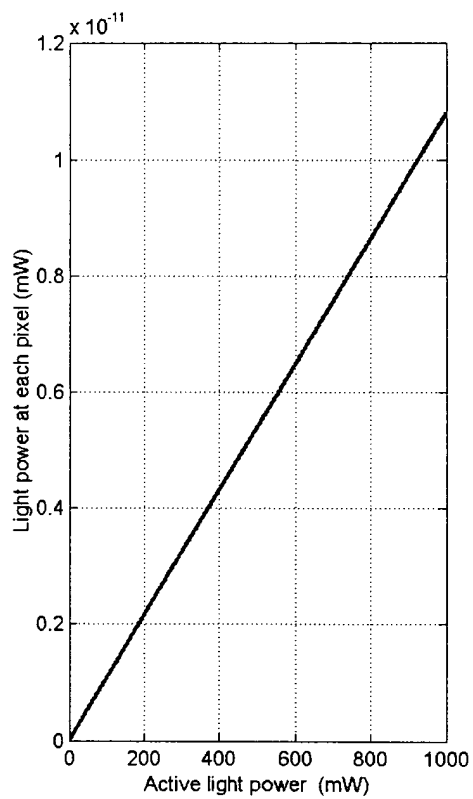


FIG 8A

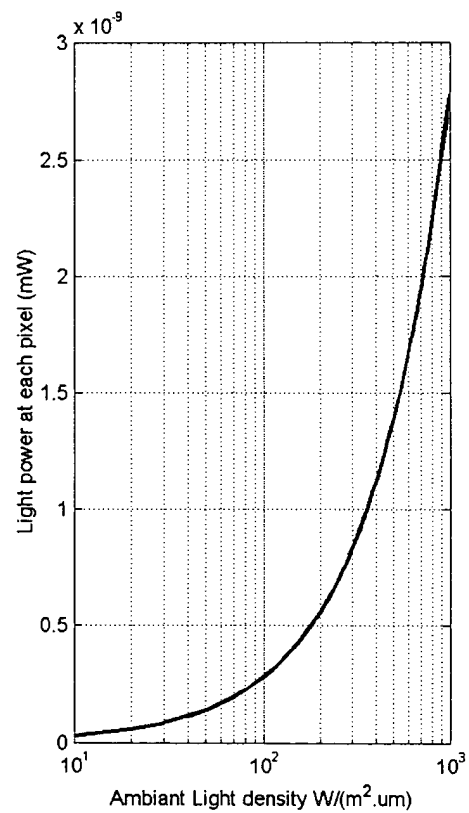


FIG. 8B

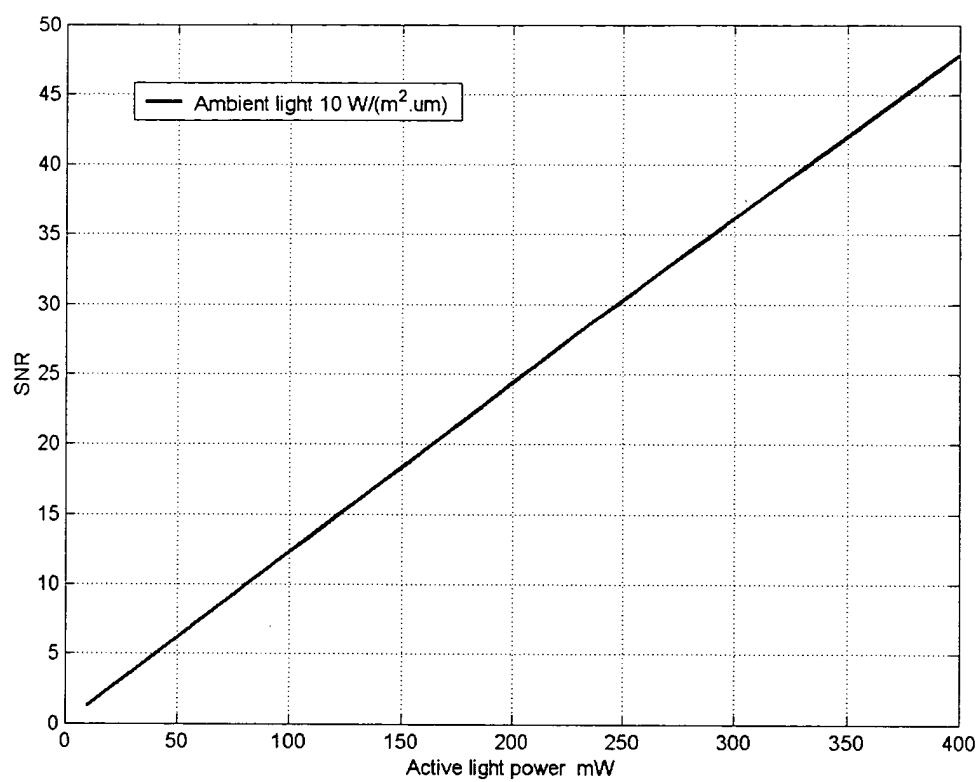


FIG. 9

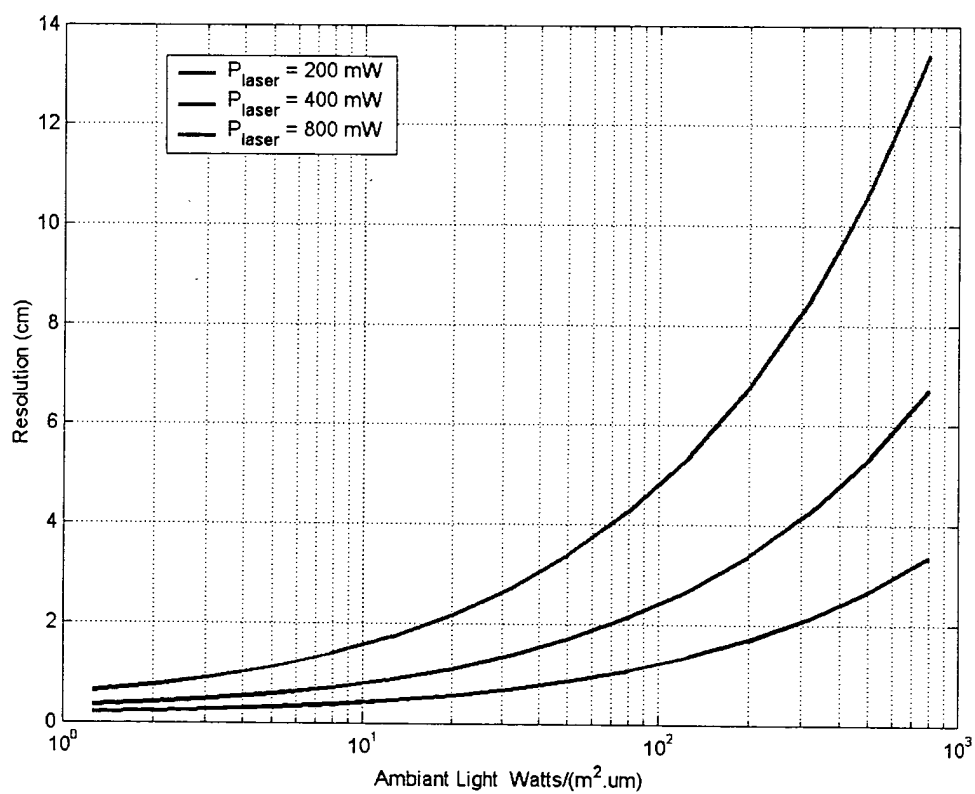


FIG. 10

# Passband center wavelength change

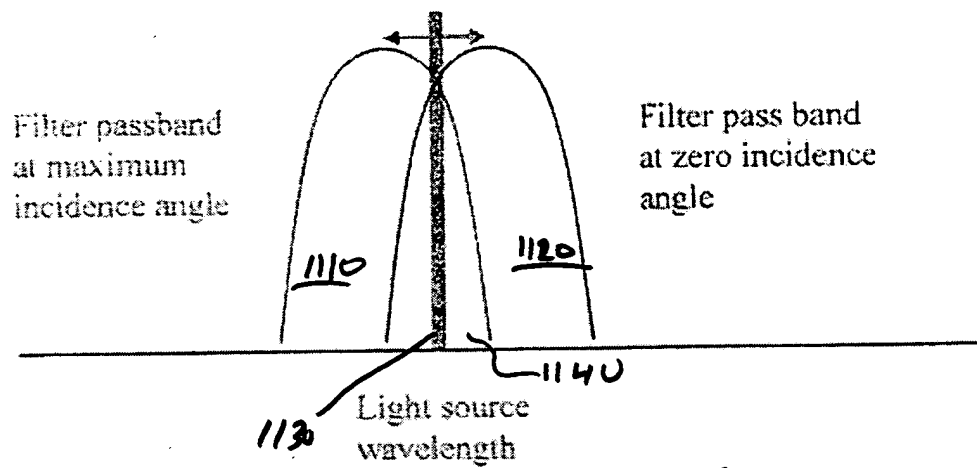


FIG. 11

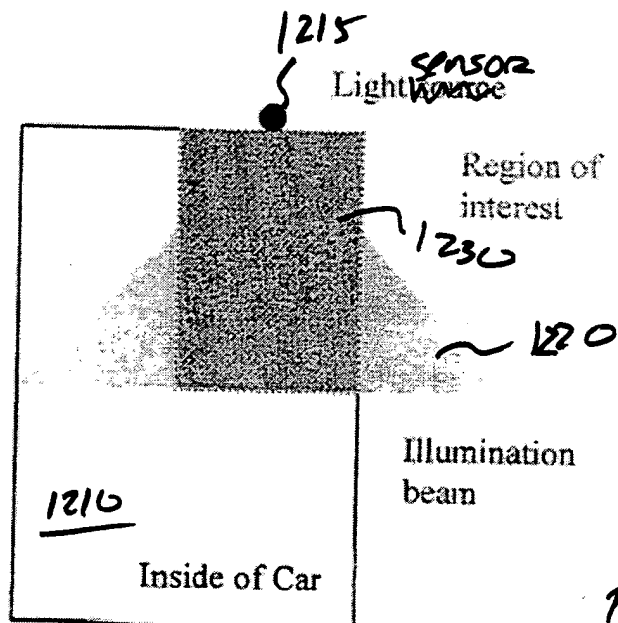


FIG. 12

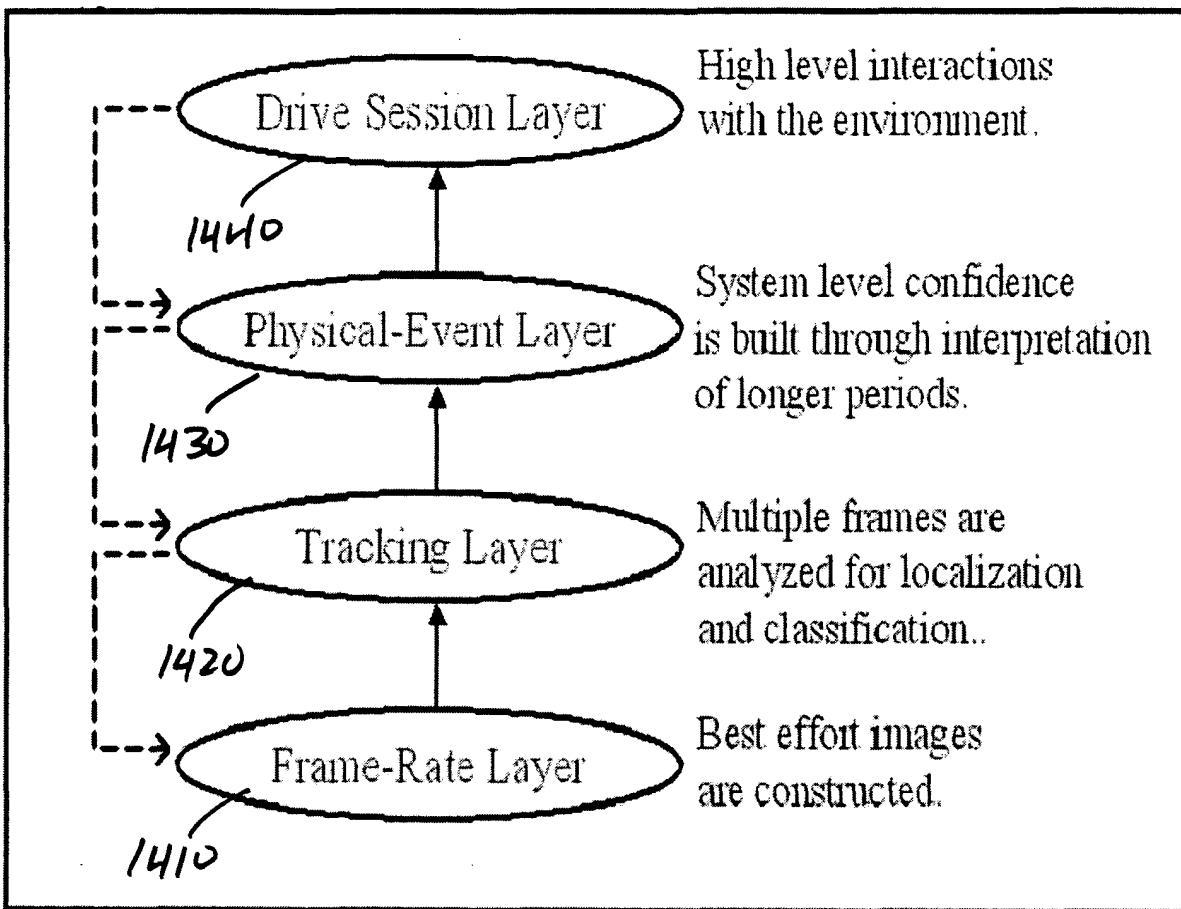


FIG. 14



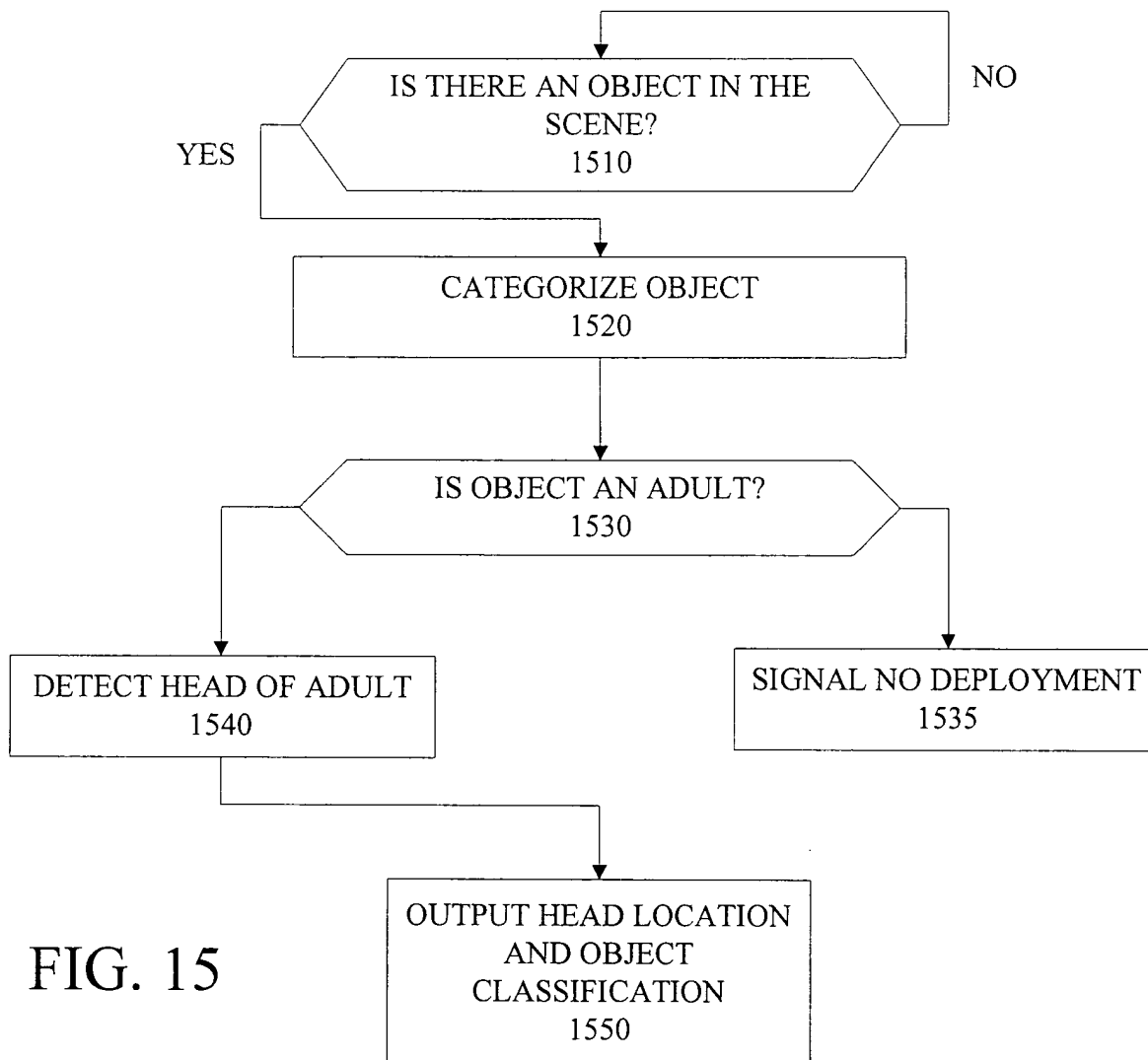


FIG. 15

FIG. 16

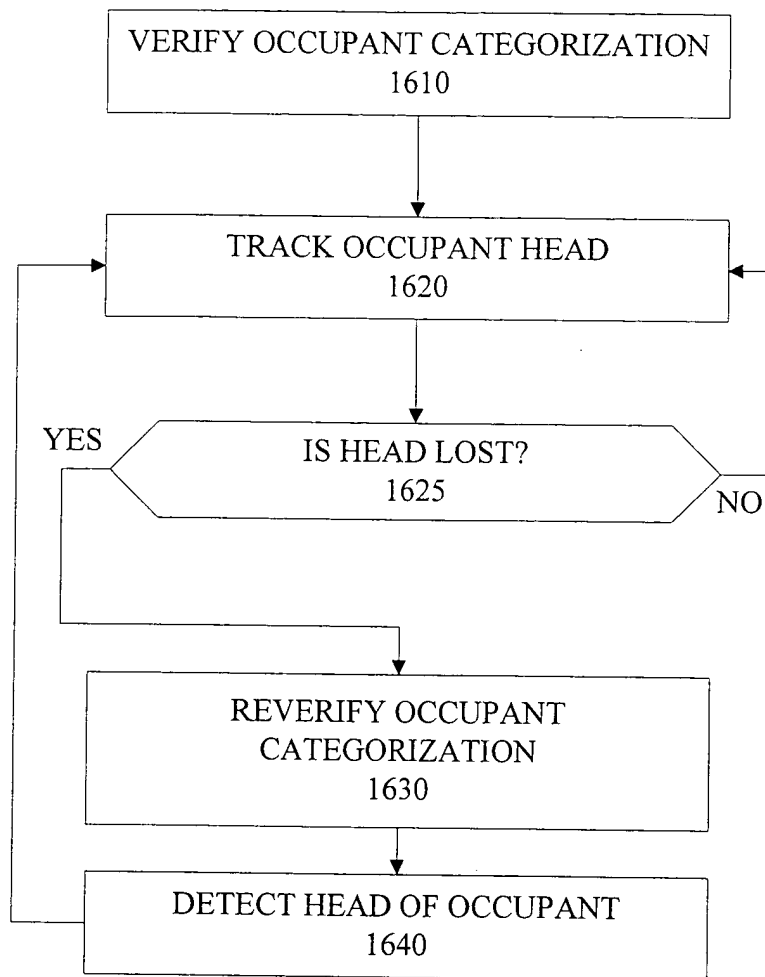
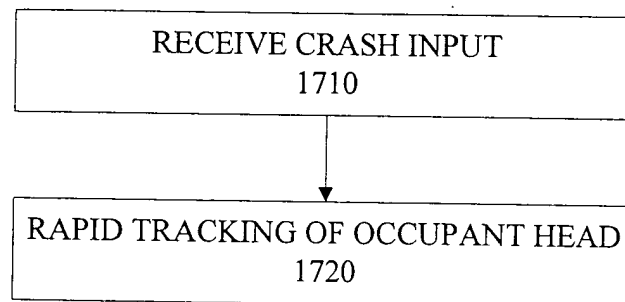


FIG. 17



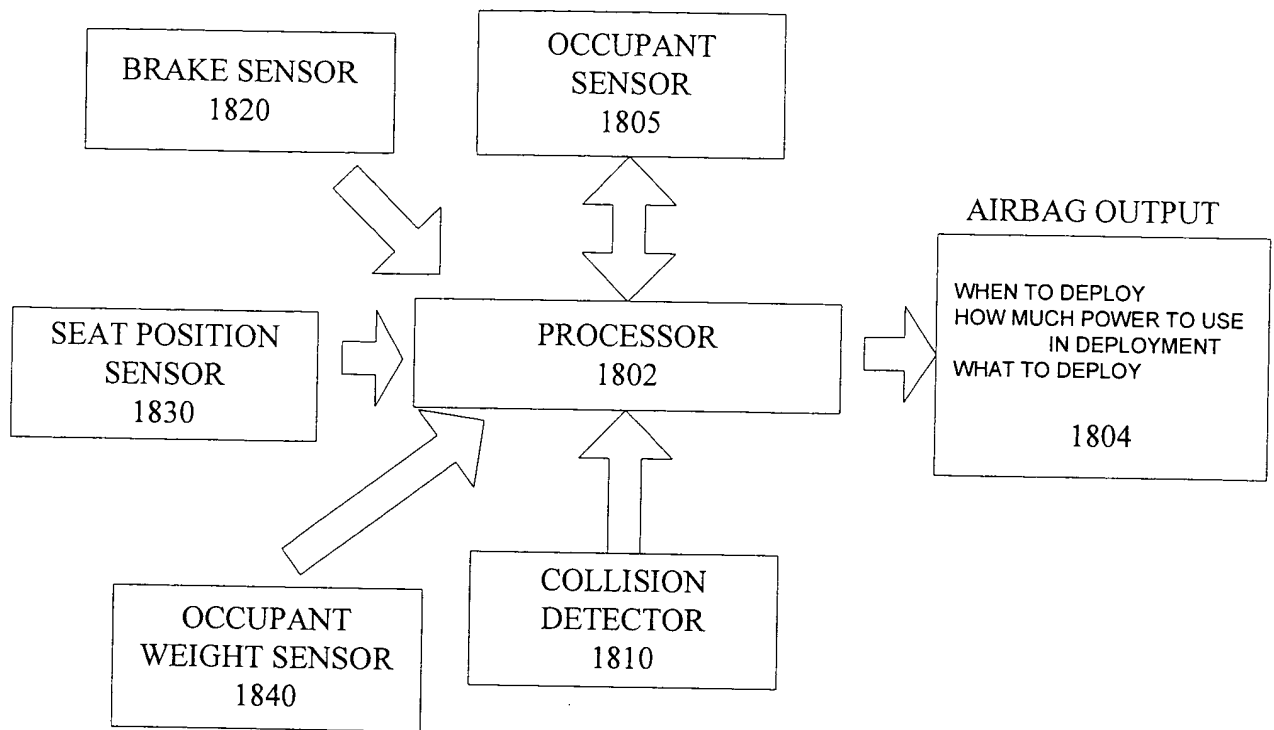


FIG. 18